



ENTERED

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/443,780C

DATE: 10/17/2002 P.6
TIME: 14:31:18

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF4\10172002\I443780C.raw

3 <110> APPLICANT: O"Mahony, Daniel J
4 Seveso, Michela
6 <120> TITLE OF INVENTION: Antibodies To Peptides That Target GIT Receptors And Related
Methods
8 <130> FILE REFERENCE: E1067/20037
10 <140> CURRENT APPLICATION NUMBER: US 09/443,780C
11 <141> CURRENT FILING DATE: 1999-11-19
13 <150> PRIOR APPLICATION NUMBER: US 60/109,036
14 <151> PRIOR FILING DATE: 1998-11-19
16 <160> NUMBER OF SEQ ID NOS: 84
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 15
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Random peptide
28 <220> FEATURE:
29 <221> NAME/KEY: MISC_FEATURE
30 <222> LOCATION: (1)..(1)
31 <223> OTHER INFORMATION: Linked to dansyl group
34 <400> SEQUENCE: 1
36 Thr Asn Ala Lys His Ser Ser His Asn Arg Arg Leu Arg Thr Arg
37 1 5 10 15
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 20
42 <212> TYPE: PRT
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Random peptide
48 <220> FEATURE:
49 <221> NAME/KEY: MISC_FEATURE
50 <222> LOCATION: (1)..(1)
51 <223> OTHER INFORMATION: Linked to dansyl group
54 <400> SEQUENCE: 2
56 Ser Asp Asn Ala Lys Glu Pro Gly Asp Tyr Asn Cys Cys Gly Asn Gly
57 1 5 10 15
60 Asn Ser Thr Gly
61 20
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 16
66 <212> TYPE: PRT
67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:

RECEIVED

OCT 30 2002

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 10/17/2002

PATENT APPLICATION: US/09/443,780C

TIME: 14:31:18

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10172002\I443780C.raw

```

70 <223> OTHER INFORMATION: Random peptide
72 <220> FEATURE:
73 <221> NAME/KEY: MISC_FEATURE
74 <222> LOCATION: (1)..(1)
75 <223> OTHER INFORMATION: Linked to dansyl group
78 <220> FEATURE:
79 <221> NAME/KEY: MISC_FEATURE
80 <222> LOCATION: (2)..(2)
81 <223> OTHER INFORMATION: D-amino acid
84 <220> FEATURE:
85 <221> NAME/KEY: MISC_FEATURE
86 <222> LOCATION: (6)..(6)
87 <223> OTHER INFORMATION: D-amino acid
90 <220> FEATURE:
91 <221> NAME/KEY: MISC_FEATURE
92 <222> LOCATION: (10)..(10)
93 <223> OTHER INFORMATION: D-amino acid
96 <220> FEATURE:
97 <221> NAME/KEY: MISC_FEATURE
98 <222> LOCATION: (12)..(13)
99 <223> OTHER INFORMATION: D-amino acid
102 <400> SEQUENCE: 3
104 Thr Arg Lys Ser Ser Arg Ser Asn Pro Arg Gly Arg Arg His Pro Gly
105 1          5          10          15
108 <210> SEQ ID NO: 4
109 <211> LENGTH: 36
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Random peptide
116 <400> SEQUENCE: 4
118 Ser Asp His Ala Leu Gly Thr Asn Leu Arg Ser Asp Asn Ala Lys Glu
119 1          5          10          15
122 Pro Gly Asp Tyr Asn Cys Cys Gly Asn Gly Asn Ser Thr Gly Arg Lys
123          20          25          30
126 Val Phe Asn Arg
127          35
130 <210> SEQ ID NO: 5
131 <211> LENGTH: 29
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Random peptide
138 <400> SEQUENCE: 5
140 Asn Leu Arg Ser Asp Asn Ala Lys Glu Pro Gly Asp Tyr Asn Cys Cys
141 1          5          10          15
144 Gly Asn Gly Asn Ser Thr Gly Arg Lys Val Phe Asn Arg
145          20          25
148 <210> SEQ ID NO: 6

```

RAW SEQUENCE LISTING

DATE: 10/17/2002

PATENT APPLICATION: US/09/443,780C

TIME: 14:31:18

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10172002\I443780C.raw

```

149 <211> LENGTH: 20
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Random sequence
156 <400> SEQUENCE: 6
158 Ser Asp Asn Ala Lys Glu Pro Gly Asp Tyr Asn Cys Cys Gly Asn Gly
159 1          5          10          15
162 Asn Ser Thr Gly
163          20
166 <210> SEQ ID NO: 7
167 <211> LENGTH: 40
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Random peptide
174 <400> SEQUENCE: 7
176 Ser Thr Pro Pro Ser Arg Glu Ala Tyr Ser Arg Pro Tyr Ser Val Asp
177 1          5          10          15
180 Ser Asp Ser Asp Thr Asn Ala Lys His Ser Ser His Asn Arg Arg Leu
181          20          25          30
184 Arg Thr Arg Ser Arg Pro Asn Gly
185          35          40
188 <210> SEQ ID NO: 8
189 <211> LENGTH: 15
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Cyclic (internal) random peptide
196 <400> SEQUENCE: 8
198 Thr Asn Ala Lys His Ser Ser Cys Asn Arg Arg Leu Arg Cys Arg
199 1          5          10          15
202 <210> SEQ ID NO: 9
203 <211> LENGTH: 15
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Cyclic (internal) random peptide
210 <400> SEQUENCE: 9
212 Thr Asn Ala Lys His Ser Ser Cys Asn Arg Arg Cys Arg Thr Arg
213 1          5          10          15
216 <210> SEQ ID NO: 10
217 <211> LENGTH: 41
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Random peptide
224 <400> SEQUENCE: 10
226 Ser Ala Arg Asp Ser Gly Pro Ala Glu Asp Gly Ser Arg Ala Val Arg

```

RAW SEQUENCE LISTING

DATE: 10/17/2002

PATENT APPLICATION: US/09/443,780C

TIME: 14:31:18

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10172002\I443780C.raw

```

227 1          5          10          15
230 Leu Asn Gly Val Glu Asn Ala Asn Thr Arg Lys Ser Ser Arg Ser Asn
231          20          25          30
234 Pro Arg Gly Arg Arg His Pro Gly Gly
235          35          40
238 <210> SEQ ID NO: 11
239 <211> LENGTH: 16
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Random peptide
246 <220> FEATURE:
247 <221> NAME/KEY: MISC_FEATURE
248 <222> LOCATION: (6)..(6)
249 <223> OTHER INFORMATION: D-amino acid
252 <220> FEATURE:
253 <221> NAME/KEY: MISC_FEATURE
254 <222> LOCATION: (12)..(12)
255 <223> OTHER INFORMATION: D-amino acid
258 <400> SEQUENCE: 11
260 Thr Arg Lys Ser Ser Arg Ser Asn Pro Arg Gly Arg Arg His Pro Gly
261 1          5          10          15
264 <210> SEQ ID NO: 12
265 <211> LENGTH: 16
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Random peptide, D form, retroinversion
272 <220> FEATURE:
273 <221> NAME/KEY: MISC_FEATURE
274 <222> LOCATION: (1)..(16)
275 <223> OTHER INFORMATION: D-amino acid
278 <400> SEQUENCE: 12
280 Gly Pro His Arg Arg Gly Arg Pro Asn Ser Arg Ser Ser Lys Arg Thr
281 1          5          10          15
284 <210> SEQ ID NO: 13
285 <211> LENGTH: 685
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial
289 <220> FEATURE:
290 <223> OTHER INFORMATION: D2H receptor
292 <400> SEQUENCE: 13
294 Met Ala Glu Asp Lys Ser Lys Arg Asp Ser Ile Glu Met Ser Met Lys
295 1          5          10          15
298 Gly Cys Gln Thr Asn Asn Gly Phe Val His Asn Glu Asp Ile Leu Glu
299          20          25          30
302 Gln Thr Pro Asp Pro Gly Ser Ser Thr Asp Asn Leu Lys His Ser Thr
303          35          40          45
306 Arg Gly Ile Leu Gly Ser Gln Glu Pro Asp Phe Lys Gly Val Gln Pro

```

RAW SEQUENCE LISTING

DATE: 10/17/2002

PATENT APPLICATION: US/09/443,780C

TIME: 14:31:18

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10172002\I443780C.raw

307	50					55				60				
310	Tyr	Ala	Gly	Met	Pro	Lys	Glu	Val	Leu	Phe	Gln	Phe	Ser	Gly
311	65					70				75				80
314	Arg	Tyr	Arg	Ile	Pro	Arg	Glu	Ile	Leu	Phe	Trp	Leu	Thr	Val
315					85					90				95
318	Val	Leu	Val	Leu	Ile	Ala	Ala	Thr	Ile	Ala	Ile	Ile	Ala	Leu
319					100				105					110
322	Lys	Cys	Leu	Asp	Trp	Trp	Gln	Glu	Gly	Pro	Met	Tyr	Gln	Ile
323			115					120					125	
326	Arg	Ser	Phe	Lys	Asp	Ser	Asn	Lys	Asp	Gly	Asn	Gly	Asp	Leu
327		130					135					140		
330	Ile	Gln	Asp	Lys	Leu	Asp	Tyr	Ile	Thr	Ala	Leu	Asn	Ile	Lys
331	145					150					155			160
334	Trp	Ile	Thr	Ser	Phe	Tyr	Lys	Ser	Ser	Leu	Lys	Asp	Phe	Arg
335					165					170				175
338	Val	Glu	Asp	Phe	Arg	Glu	Val	Asp	Pro	Ile	Phe	Gly	Thr	Met
339					180				185					190
342	Phe	Glu	Asn	Leu	Val	Ala	Ala	Ile	His	Asp	Lys	Gly	Leu	Lys
343			195					200					205	
346	Ile	Asp	Phe	Ile	Pro	Asn	His	Thr	Ser	Asp	Lys	His	Ile	Trp
347		210					215					220		
350	Leu	Ser	Arg	Thr	Arg	Thr	Gly	Lys	Tyr	Thr	Asp	Tyr	Tyr	Ile
351	225					230					235			240
354	Asp	Cys	Thr	His	Glu	Asn	Gly	Lys	Thr	Ile	Pro	Pro	Asn	Asn
355					245					250				255
358	Ser	Val	Tyr	Gly	Asn	Ser	Ser	Trp	His	Phe	Asp	Glu	Val	Arg
359			260						265					270
362	Cys	Tyr	Phe	His	Gln	Phe	Met	Lys	Glu	Gln	Pro	Asp	Leu	Asn
363			275					280					285	
366	Asn	Pro	Asp	Val	Gln	Glu	Glu	Ile	Lys	Glu	Ile	Leu	Arg	Phe
367		290					295					300		
370	Thr	Lys	Gly	Val	Asp	Gly	Phe	Ser	Leu	Asp	Ala	Val	Lys	Phe
371	305					310					315			320
374	Glu	Ala	Lys	His	Leu	Arg	Asp	Glu	Ile	Gln	Val	Asn	Lys	Thr
375					325					330				335
378	Pro	Asp	Thr	Val	Thr	Gln	Tyr	Ser	Glu	Leu	Tyr	His	Asp	Phe
379					340				345					350
382	Thr	Gln	Val	Gly	Met	His	Asp	Ile	Val	Arg	Ser	Phe	Arg	Gln
383			355					360					365	
386	Asp	Gln	Tyr	Ser	Thr	Glu	Pro	Gly	Arg	Tyr	Arg	Phe	Met	Gly
387		370					375					380		
390	Ala	Tyr	Ala	Glu	Ser	Ile	Asp	Arg	Thr	Val	Met	Tyr	Tyr	Gly
391	385					390					395			400
394	Phe	Ile	Gln	Glu	Ala	Asp	Phe	Pro	Phe	Asn	Asn	Tyr	Leu	Ser
395					405					410				415
398	Asp	Thr	Val	Ser	Gly	Asn	Ser	Val	Tyr	Glu	Val	Ile	Thr	Ser
399					420					425				430
402	Glu	Asn	Met	Pro	Glu	Gly	Lys	Trp	Pro	Asn	Trp	Met	Ile	Gly
403			435					440						445

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/17/2002
PATENT APPLICATION: US/09/443,780C TIME: 14:31:19

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF4\10172002\I443780C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:72; Xaa Pos. 1,3,4,6,7,8,10
Seq#:73; Xaa Pos. 2,4,7,8
Seq#:74; Xaa Pos. 7,8

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36
Seq#:37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60
Seq#:61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84

VERIFICATION SUMMARY

DATE: 10/17/2002

PATENT APPLICATION: US/09/443,780C

TIME: 14:31:19

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF4\10172002\I443780C.raw

L:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0
L:2656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:2682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0